FFFFFFFFFFFFFFFFFFFF	00000000 00000000 00000000	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	LLL
FFF	000 000		RRR RRR	TTT	III
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000	RRRRRRRRRRR	RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	rrr
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	rrr
FFF	000 000		RRR RRR	III	LLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLL

RR RR RR

FFFFFFFFF FF FF FF FF FFFFFFFF FF FF FF	000000 0000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	NN	QQQQQQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ	UU	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
	000000 000000 1111111 111111 111 111 11	RR RR RR RR RR RR RR SSSSSSSSSSSSSSSSS	NN NN NN NN NN	QQ QQ QQ QQ QQ QQ		RR RR RR RR RR
		\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$				

FORSINGUIRE 1-017	FORTRAN INQUIRE	K 1 16-Sep-1984 00:27:20 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:02 [FORRTL.SRC]FORINGUIR.B32;1
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	0063 1 1-013 - 0064 1 1-014 - 0065 1 0066 1 0067 1 1-015 -	of ACTUALCOUNT to the inside of the routine which uses it.  SBL 21-August-1980 Add support for DEFAULTFILE. JAW 01-Jul-1981 Allow DEFAULTFILE value to be ASCIZ. JAW 02-Jul-1981 Open file for shared access. SBL 2-Nov-1981 Declare LIB\$SIOP external. SBL 30-Nov-1981 Do extra \$PARSE after \$SEARCH to make RMS clean up its internal structures. Never signal any error except PUSH CB errors in INQUIRE by UNIT. SPR 11-47083 SBL 5-August-1982 Don't do the \$SEARCH for non-FOD devices, as it will return RMS\$_IOP. SBL 14-Jan-1983 Make use of the fact that the FAB and NAM blocks are heap-allocated. Use prologue file. SBL 20-Apr-1983 Use individual NAM\$V_WILD_xxx fields to determine if wildcard is present since search lists would trigger NAM\$V_WILDCARD. SBL 24-Aug-1983

Page 2 (1)

```
FORSINGUIRE
                           FORTRAN INQUIRE
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                                                                                                                                                                                                                      Page
     PROLOGUE FILE:
                                         REQUIRE 'RTLIN: FORPROLOG':
                                                                                                              ! FORTRAN-specific definitions
                                             TABLE OF CONTENTS:
                                         FORWARD ROUTINE FORSINGUIRE, PUSH_CCB: CALL_CCB;
                                                                                                               ! Process INQUIRE statement
! Calls FOR$$CB_PUSH
                                             FIELDS:
                                                FIELD
                                                       INQ_FIELDS =
SET
UNIT_OK
NAME_OK
CCB_OK
EXISTS
                                                                                                                          UNIT is valid name is valid CCB valid file exists FAB is valid INQUIRE by FILE
                                                              FAB OK
BY FILE
TES;
                                             EQUATED SYMBOLS:
                                            Codes for string responses. These values are put into vector RESP_VEC when the correct response is determined.
                                    1 LITERAL
BLANK
YES
                                                                                   =
                                                NO
                                                                                   UNKNOWN
                                                DIRECT
                                                                                      45.67.89101.23.1.15.1.189.
                                                KEYED
                                                SEQUENTIAL
FORMATTED
UNFORMATTED
RELATIVE
INDEXED
                                                NULL
ZERO
FIXED
VARIABLE
SEGMENTED
                                                FORTRAN
                                                LIST
                                                NONE
                                                STREAM
```

```
FORSINGUIRE
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                         FORTRAN INQUIRE
                                             STREAM_CR
STREAM_LF
    OWN STORAGE:
                                         String responses are stored here in a PIC table.
                                          ! Lengths of string responses.
                                            RESP LENS : VECTOR [22, BYTE] PSECT (FOR$CODE) INITIAL (BYTE (TO CHARCOUNT ('YES'),
                                                   *CHARCOUNT
                                                                     ('NO')
                                                                      'UNKNOWN'),
                                                   *CHARCOUNT
                                                                      'DIRECT').
                                                   %CHARCOUNT
                                                   *CHARCOUNT
                                                   %CHARCOUNT ('KEYED'),
%CHARCOUNT ('SEQUENTIAL'),
%CHARCOUNT ('FORMATTED'),
%CHARCOUNT ('UNFORMATTED'),
%CHARCOUNT ('RELATIVE'),
%CHARCOUNT ('INDEXED'),
%CHARCOUNT ('NULL'),
%CHARCOUNT ('ZERO'),
%CHARCOUNT ('FIXED'),
%CHARCOUNT ('YARIABLE'),
%CHARCOUNT ('SEGMENTED'),
                                                   %CHARCOUNT ('SEGMENTED'),
```

```
FORSINGUIRE
                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                                FORTRAN INQUIRE
                                                                %CHARCOUNT ('FORTRAN'),
%CHARCOUNT ('LIST'),
%CHARCOUNT ('NONE'),
%CHARCOUNT ('STREAM'),
%CHARCOUNT ('STREAM_CR'),
%CHARCOUNT ('STREAM_LF')
     18
19
20
21
                                                   Vector which is indexed by the keyword number. Values are: 0 = do nothing, 1 = numeric, 2 = string.
                                                       RESP_TYPES : VECTOR [INQ$K_KEY_MAX + 1, BYTE] PSECT (_FOR$CODE) INITIAL (BYTE ( REP_INQ$K_IOSTAT OF (0), ! Up to but not including IOSTAT 1, ! IOSTAT
                                                                REP INQSK_EXIST - (INQSK_IOSTAT + 1) OF (0),
                                                                                                                                                               ! Unused space
                                                                                    OPENED
                                                                                    NUMBER
                                                                                    NAMED
                                                               1022222221122222
                                                                                    NAME (name is stored separately)
ACCESS
                                                                                    SEQUENTIAL
                                                                                    DIRECT
                                                                                    FORM
                                                                                    FORMATTED
                                                                                    UNFORMATTED
                                                                                   RECL
NEXTREC
                                                                                    BLANK
                                                                                    ORGANIZATION
                                                                                    RECORDTYPE
                                                                                    KEYED
                                                                                    CARRIAGECONTROL
                                                   EXTERNAL REFERENCES:
                                              EXTERNAL ROUTINE

FOR$$ERR_OPECLO,

FOR$$ERR$NS_SAV: NOVALUE,

FOR$$OPECLO_ARG,

FOR$$CB_PUSH: JSB_CB_PUSH,

FOR$$CB_POP: JSB_CB_POP NOVALUE,

FOR$$CB_FETCH: CALL_CCB NOVALUE,

FOR$$SIG_NO_LUB: NOVALUE,

LIB$SIG_TO_RET,

LIB$STOP: NOVALUE,

FOR$$NEXT_LUN: NOVALUE;
                                                                                                                                    Error handler
Save ERRSNS values
                                                                                                                                   Process argument list
Get a CCB
                                0299
0300
0301
0302
                                                                                                                                    Free a CCB
Fetch a CCB
Signal fatal error
                                                                                                                                    Condition handler
                                                                                                                                   Signal non-continuable error find next allocated LUN
```

FOF

```
C 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                               FORTRAN INQUIRE
                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                                                                                                                                                                                                                                                       Page
                                                                                                                                                                                                                                                                 (3)
                                                               INQUIRE : VOLATILE VECTOR [INQ$K_KEY_MAX + 1],
NAM_BLOCK : $NAM_DECL,
FAB_BLOCK : $FAB_DECL,
XAB_BLOCK : $XABFHC_DECL,
FAB: REF BLOCK [, BYTE],
NAM: REF BLOCK [, BYTE],
                               03645667890123456789000338887777777777778888888889003388890
      INQUIRE parameter array
                                                                                                                                                                   NAM block
FAB block
XAB block
                                                                                                                                                                   Pointer to FAB
                                                                                                                                                                   Pointer to NAM
                                                               UNIT,

RES_OR_EXP_NAME : VECTOR [NAMSC_MAXRSS, BYTE],

RES_OR_EXP_LEN, ! Length

INQ_FLAGS: BLOCK [4,BYTE] FIELD (INQ_FIELDS),

VAR_LENGTHS : VECTOR [INQ$K_KEY_MAX + 1, BYTE],

RESP_VEC : VECTOR [INQ$K_KEY_MAX + 1, LONG],
                                                                                                                                                                    LUN number
                                                                                                                                                                   RSN or ESN
                                                                                                                                                  Length of resultant name
                                                                                                                                                                  Internal flags
Length in bits of variables
Response vector
                                                                RÉT_STATUS,
STATUS;
                                                                                                                                                   Returned error code from FOR$INQUIRE
                                                                                                                                                   Returned condition code
                                                        BIND
                                                                CCB_FAB = CCB: REF $FOR$FAB_CCB_STRUCT,
CCB_NAM = CCB: REF $FOR$NAM_CCB_STRUCT;
                                                        ENABLE
                                                                FOR$$ERR_OPECLO (L_UNWIND_ACTION, INQUIRE);
                                                                                                                                                              ! Set up error handler
                                                        ! Set up FAB, NAM and XAB blocks.
                                                       $FAB_INIT (FAB=FAB_BLOCK, NAM=NAM_BLOCK, XAB=XAB_BLOCK, DNM='.DAT', SHR=(GET,PUT,DEL,UPD,UPI));
                               0391
0392
0393
                                                       $NAM_INIT (NAM=NAM_BLOCK, ESA=RES_OR_EXP_NAME, ESS=NAM$C_MAXRSS, RSA=RES_OR_EXP_NAME, RSS=NAM$C_MAXRSS);
$XABFHC_INIT (XAB=XAB_BLOCK);
                               0394
0395
0396
0397
                                                           Initialize internal flags and return status value.
                                                       CH$FILL (0, (INQ$K KEY MAX +1) * %UPVAL, RESP_VEC);
CH$FILL (0, INQ$K REY MAX + 1, VAR_LENGTHS);
INQ_FLAGS [NAME_OR] = 0;
INQ_FLAGS [UNIT_OK] = 0;
INQ_FLAGS [CCB_OK] = 0;
INQ_FLAGS [EXISTS] = 0;
INQ_FLAGS [EXISTS] = 0;
INQ_FLAGS [BY_FILE] = 0;
RET_STATUS = T;
RES_OR_EXP_LEN = 0; ! No name available yet
                               0398
0399
                               0400
                                0402
                                0404
                                0405
0406
0407
0408
                                0409
                                0410
0411
0412
0413
0414
0415
0416
                                                            Set UNWIND cleanup to be a no-op since LUB/ISB/RAB
                                                           has not been pushed yet.
                                                        L_UNWIND_ACTION = FOR$K_UNWINDNOP;
                                                        ! Copy keyword argument list into array INQUIRE ! in canonical order. If FILE= is ASCIZ string, NAM_DSC is set
```

FO!

FO

```
E 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
1-017
                     FORTRAN INQUIRE
                                                                                                                    VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                                                                                                                                                                    Page
   413
414
415
416
417
                    [FAB$B_DNS] = .DNAME [DSC$W_LENGTH];
[FAB$L_DNA] = .DNAME [DSC$A_POINTER];
                                                    END
                                               ELSE
                                                     INQ_FLAGS [NAME_OK] = 0;
                                                                                              ! Name is invalid
   IF . INQUIRE [INQ$K_FILE] NEQA O
                                          THEN
                                               BEGIN
                                               LOCAL
                                               FNAME: REF DSC$DESCRIPTOR;
FNAME = .INQUIRE [INQ$K FILE];
IF .FNAME [DSC$W_LENGTH] LEQU 255
                                                                                                 Filename descriptor
                                                                                               ! Get file name address
                                               THEN
                                                    FAB [FAB$B_FNS] = .FNAME [DSC$W_LENGTH];
FAB [FAB$L_FNA] = .FNAME [DSC$A_POINTER];
                                               ELSE
                                                    INQ_FLAGS [NAME_OK] = 0;
                                                                                               ! Name is invalid
                                               END:
                                            Do a $PARSE and $SEARCH to see if the name is ok.
                                              .INQ_FLAGS [NAME_OK]
                                               IF $PARSE (FAB=FAB [0,0,0,0])
                                               THEN
                                                    BEGIN
                                                    IF (.NAM [NAM$L FNB] AND (
NAM$M_WILD_DIR OR
NAM$M_WILD_NAME OR
NAM$M_WILD_TYPE OR
                                                                                              ! Disallow wildcards
                                                          NAMSM_WILD_VER)) NEQ 0
                                                          INQ_FLAGS [NAME_OK] = 0
                                                    ELSE
                                                          BEGIN
                                                            Don't do $SEARCH for non-file-oriented devices.
                                                          IF .BLOCK [FAB [FAB$L_DEV], DEV$V_FOD;4, BYTE]
                                                               $SEARCH (#AB=FAB [0,0,0,0])
                                                               NAM [NAM$B_RSL] = .NAM [NAM$B_ESL]; ! Use ESN instead
                                                          END:
                                                    END
                                               ELSE
                                                     INQ_FLAGS [NAME_OK] = 0;
                                          IF .INQ_FLAGS [NAME_OK] ! No errors so far?
   468
                                               BEGIN
```

00

```
F 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                              FORTRAN INQUIRE
                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                                                                                                                                                                                                                                               Page 10 (3)

      0123456789012345678901234567890123456789011234567890123456

                              IF .NAM [NAM$B_ESL] NEQ 0
                                                                      INQ_FLAGS [NAME_OK] = 1;
IF .NAM [NAM$B_RSL] NEQ 0
                                                                                                                                           ! It's a vaild filename
                                                                             INQ_FLAGS [EXISTS] = 1; ! File exists
                                                                     END:
                                                             FAB [FAB$V_NAM] = 1;
                                                                 Now attempt to SOPEN the file. We may fail for several reasons, one of which is that someone else, maybe us, has
                                                                 the file locked. We try to recover from errors as gracefully
                                                                 as we can.
                                                                   .INQ_FLAGS [EXISTS]
                                                              THEN
                                                                     IF $OPEN (FAB=FAB [0,0,0,0])
                                                                     THEN
                                                                             BEGIN
                                                                             $CLOSE (FAB=FAB [0,0,0,0]);
INQ_FLAGS [FAB_OK] = 1;
                                                                             END
                                                                     ELSE
                                                                             INQ_FLAGS [EXISTS] = 0; ! If we can't open it, it doesn't exist.
                                                                 Use Resultant name string or Expanded name string, in order
                                                                 of preference.
                                                             RES_OR_EXP_LEN = .NAM [NAM$B_RSL];
IF .RES_OR_EXP_LEN EQL 0
THEN
                                                                                                                                          ! Get length of result
                                                                     RES_OR_EXP_LEN = .NAM [NAM$B_ESL];
                                                                RMS expects us to keep doing $SEARCHs until no more files are found. Well, we're not going to do that. The problem is that RMS has allocated an IFAB (internal FAB) for the $SEARCH sequence and, if the file is on a remote node, has a FAL task waiting for the next search. There is no clearly stated way of causing RMS to clean up. The way we will do it is to do another $PARSE on the FAB after we have zeroed the FNM, ESA and RSA pointers. This is to prevent RMS from overwriting them.
                                                              IF . INQ_FLAGS [NAME_OK]
                                                              THEN
                                                                     BEGIN
                                                                    FAB [FAB$L_FNA] = 0;

FAB [FAB$B_FNS] = 0;

FAB [FAB$L_DNA] = 0;

NAM [NAM$L_ESA] = 0;

NAM [NAM$L_RSA] = 0;
                                                                     SPARSE (FAB=FAB [0,0,0,0]);
```

08

```
F0
```

```
G 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
1-017
                       FORTRAN INQUIRE
                                                                                                                                VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                       END:
    IF . INQ_FLAGS [NAME_OK]
                                               THEN
                                                     BEGIN
                                                       If we successfully opened the file, all the necessary info is now in the FAB. We have to scan the logical units to see
                                                       if we have the file open, if we couldn't open the file.
                                                    LOCAL
                                                          LUN_FLAG:
                                                                                                         ! Flag to OTS$$NEXT_LUN
                                                       Restore resultant or expanded name string
                                                    NAM [NAM$L_RSA] = RES_OR_EXP_NAME;
NAM [NAM$B_RSL] = .RES_OR_EXP_LEN;
                                                       Begin scan of allocated logical units.
                                                    LUN_FLAG = 0;
IF .RET_STATUS THEN
                                                                                                            Initialize LUN_FLAG
                                                                                                            If no error so far
                                                                                                           Until no more units
                                                          FOR$$NEXT_LUN (LUN_FLAG, UNIT); ! Get next used LUN
                                                          IF .LUN_FEAG NEQ O'THEN
                                                                BEGIN
                                                                  We have a unit which has been allocated by FORTRAN. We call FOR$$CB_FETCH to fetch the CCB. If the unit is opened and the names match then we use it.
                                                                   else we try again. This matching must be done while ASTs are disabled so as to prevent someone from
                                                              AST STATUS; ! Returned from $SETAST
AST STATUS = $SETAST (ENBFLG = 0); ! Disable ASTS
FOR$$CB_FETCH (.UNIT); ! Fetch the CCB for the
THEN
                                                                   playing in the LUB while we are deciding.
                                                                                                         ! Fetch the CCB for this unit
                                                                          .CCB [LUB$V_OPENED]
                                                                      THEN
                                                                            IF CHSEQL (.CCB [LUBSB_RSL], .CCB [LUBSA_RSN],
                                                                                  .RES_OR_EXP_LEN, RES_OR_EXP_NAME, %CT
                                                                                  BEGIN
                                                                                    We have a match. Call PUSH_CCB to
                                                                                    push the unit and return any errors as its value. ASTs are still disabled.
```

```
H 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                                                                                                                                        VAX-11 Bliss-32 V4.0-742
LFORRTL.SRCJFORINQUIR.B32;1
                         FORTRAN INQUIRE
                                                                                                                                                                                               Page
                                                                                      INQ FLAGS [UNIT OK] = 1;
STATUS = PUSH_CCB (.UNIT);
IF .AST_STATUS EQL SS$_WASSET
THEN
    06445512345678901234666666777234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123
SSETAST (ENBFLG = 1);
THEN
                                                                                                                                        ! Reenable ASTs
                                                                                            BEGIN
                                                                                            L UNWIND ACTION = FOR$K_UNWINDPOP;
INQ_FLAGS [CCB_OK] = 1;
INQ_FLAGS [EXISTS] = 1;
                                                                                            EXITLOOP;
                                                                                      ELSE
                                                                                             BEGIN
                                                                                               The push failed.
                                                                                               exit the loop.
                                                                                             EXITLOOP;
                                                                                            END;
                                                                                      END:
                                                                      No match. Continue scanning units.
                                                                        .AST_STATUS EQL SS$_WASSET
                                                                          $SETAST (ENBFLG = 1); ! Reenable ASTs
                                                       UNTIL .LUN_FLAG EQL 0;
                                                                                                  ! Until no more LUNs
                                                       END
                                                 ELSE
                                                       BEGIN
                                                          Name is invalid. Point "resultant name" at filename.
                                                       NAM [NAM$L_RSA] = .FAB [FAB$L_FNA];
NAM [NAM$B_RSL] = .FAB [FAB$B_FNS];
                                                       END:
                                                 END
                                           ELSE
                                                 BEGIN
                                                   This is INQUIRE by UNIT.
                                                 UNIT = .INQUIRE [INQ$K_UNIT]; ! Get unit number
                                                 IF .UNIT GEQ LUB$K_LUN_MIN AND .UNIT LEQ LUB$K_LUN_MAX ! Unit in range 0-99?
                                                       BEGIN
                                                        INQ_FLAGS [UNIT_OK] = 1;
```

FO

Page 13 (3)

```
I 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINQUIRE
                              FORTRAN INQUIRE
                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                                                                      We know that the unit is a valid number, but we don't know if it has been opened by FORTRAN. Call PUSH CCB to attempt the push. It may fail because the unit was not allocated by FORTRAN or because of recursive I/O,
                             66464456789012345678901234567890123456787878
                                                                       or other reasons.
                                                                   STATUS = PUSH_CCB (.UNIT);
IF .STATUS
THEN____
                                                                          BEGIN
                                                                              Success. Use this CCB.
                                                                           L_UNWIND_ACTION = FOR$K_UNWINDPOP;
IF .CCB [LUB$V_OPENED] ! Unit open?
                                                                           THEN
                                                                                  BEGIN
                                                                                  INQ_FLAGS [CCB_OK] = 1;
INQ_FLAGS [EXISTS] = 1;
INQ_FLAGS [NAME_OK] = 1;
                                                                                  END
                                                                          ELSE
                                                                                  BEGIN
                                                                                     The unit is not open. Return it and try again.
                                                                                  FOR$$CB_POP(); ! Return the L_UNWIND_ACTION = FOR$K_UNWINDNOP;
                                                                                                                       ! Return the LUB
                                                                          END
                                                                   ELSE
                                                                             The push failed.
                                                                           RET_STATUS = .STATUS;
                                                           END:
```

```
J 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
1-017
                                                                                                                    VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32;1
                     FORTRAN INQUIRE
                                                                                                                                                                    Page 14 (4)
   いろろろろう
                                        If the CCB is valid, point the FAB and NAM pointers at the blocks in the CCB.
                                     IF .INQ_FLAGS [CCB_OK]
                                     THEN
                                          BEGIN
                                          FAB = CCB_FAB [0,0,0,0];
NAM = CCB_NAM [0,0,0,0];
                                          END:
                                       Now fill in return values.
                                       EXIST - Logical variable.

By file - TRUE if file exists, otherwise FALSE.

By unit - TRUE if unit exists (0-99), otherwise FALSE.
                                         .INQUIRE [INQ$K_EXIST] NEQ O
                                     THEN
                                          IF .INQ_FLAGS [EXISTS] OR ((NOT .INQ_FLAGS [BY_FILE]) AND .INQ_FLAGS [UNIT_OK])
                                                RESP_VEC [INQ$K_EXIST] = -1
                                          ELSE
                                                RESP_VEC [INQ$K_EXIST] = 0;
                                       OPENED - logical variable
                                         TRUE if unit is opened, otherwise FALSE.
                                     IF .INQUIRE [INQ$K_OPENED] NEQ O
                                     THEN
                                          IF (.INQ_FLAGS [CCB_OK]) OR ! True if unit cont (.INQ_FLAGS [BY_FILE] AND .INQ_FLAGS [UNIT_OK])
                                                                                     ! True if unit connected to a file
                                                RESP_VEC [INQ$K_OPENED] = -1
                                          ELSE
                                                RESP_VEC [INQ$K_OPENED] = 0;
                                       NUMBER - integer variable
                                          By file - unit number that file is connected to.
By unit - returns unit number if connected.
                                     IF .INQUIRE [INQ$K_NUMBER] NEQ O
                                     THEN
                                           IF .INQ_FLAGS [UNIT_OK]
                                                RESP_VEC [INQ$K_NUMBER] = .UNIT
                                                RESP_VEC [INQ$K_NUMBER] = 0;
```

FO

```
F0
```

```
K 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                       FORTRAN INQUIRE
                                                                                                                               VAX-11 Bliss-32 V4.0-742
LFORRTL.SRCJFORINGUIR.B32:1
    NAMED - logical variable
                                              If file has a name, then this is TRUE. If file is opened SCRATCH, then it is considered not to be named.
                                             .INQUIRE [INQ$K_NAMED] NEQ O
                                        THEN
                                              BEGIN
                                              IF . INQ_FLAGS [NAME_OK]
                                              THEN
                                                    RESP_VEC [INQ$K_NAMED] = -1
                                                  RESP_VEC [INQ$K_NAMED] = 0;
.INQ_FLAGS [CCB_OK] THEN IF .CCB [LUB$V_SCRATCH]
                                              THEN
                                                    RESP_VEC [INQ$K_NAMED] = 0;
                                              END:
                                           NAME - character variable
                                              If NAMED would be true, then the fully qualified file name that results. This file might not exist, but the filename is valid.
                                             .INQUIRE [INQ$K_NAME] NEQ O
                                        THEN
                                              BEGIN
                                              LOCAL
                                              NAME_DSC : REF DSC$DESCRIPTOR;

NAME_DSC = .INQUIRE [INQ$K_NAME];

CH$COPY (.NAM [NAM$B_RSL], .NAM [NAM$L_RSA], %C'',

.NAME_DSC [DSC$W_LENGTH], .NAME_DSC [DSC$A_POINTER]);
                                          ACCESS - character variable
Access type specified by OPEN or DEFINE FILE. Can be 'SEQUENTIAL',
'DIRECT', 'KEYED' or 'UNKNOWN' if not connected.
                                             .INQUIRE [INQ$K_ACCESS] NEQ O
                                        THEN
                                              BEGIN
                                              RESP_VEC [INQ$K_ACCESS] = UNKNOWN; IF .INQ_FLAGS [CCB_OK]
                                              THEN
                                                    IF .CCB [LUB$V_DIRECT]
                                                    THEN
                                                    RESP_VEC [INQ$K_ACCESS] = DIRECT
                                                    THEN
                                                          RESP_VEC [INQ$K_ACCESS] = KEYED
                                                    ELSE
                                                          RESP_VEC [INQ$K_ACCESS] = SEQUENTIAL
                                              ELSE
                                                    RESP_VEC [INQ$K_ACCESS] = UNKNOWN;
                                              END:
                                        !+
```

```
F0
```

(4)

```
L 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                            FORTRAN INQUIRE
                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
EFORRTL.SRCJFORINQUIR.B32:1
                                                    SEQUENTIAL - character variable
If ACCESS='SEQUENTIAL' is allowed for this file, then this is 'YES'.
An answer of 'NO' is impossible for VAX, since ALL files can be accessed sequentially. However, if we can't open the file, we return 'UNKNOWN'.
     .INQUIRE [INQ$K_SEQUENTIA] NEQ O
                                                 THEN
                                                             .INQ_FLAGS [EXISTS]
                                                        THEN
                                                              RESP_VEC [INQ$K_SEQUENTIA] = YES
                                                              RESP_VEC [INQ$K_SEQUENTIA] = UNKNOWN;
                                                   DIRECT - character variable
If ACCESS='DIRECT' is allowed for this file, then we answer 'YES'.
If not allowed, answer 'NO'. If we can't open the file, answer 'UNKNOWN'.
                                                      .INQUIRE [INQ$K_DIRECT] NEQ O
                                                 THEN
                                                       BEGIN
RESP_VEC [INQ$K_DIRECT] = UNKNOWN;
IF .INQ_FLAGS [EXISTS]
THEN_____
                                                              SELECTONE . FAB [FAB$B_ORG] OF
                                                                     [FAB$C_SEQ] :

IF .FAB [FAB$B_RFM] EQL FAB$C_FIX

THEN
                                                                                   RESP_VEC [INQ$K_DIRECT] = YES
                                                                     RESP_VEC [INQ$K_DIRECT] = NO;

RESP_VEC [INQ$K_DIRECT] = YES;

[FAB$C_IDX]:

RESP_VEC [INQ$K_DIRECT] = NO;
                                                                     TES:
                                                              END:
                                                       END:
                                                   KEYED - character variable
Is ACCESS='KEYED' allowed for this file? 'YES' if it's INDEXED organization, 'NO' if not and 'UNKNOWN' if we can't tell.
                                                      .INQUIRE [INQ$K_KEYED] NEQ O
                                                 THEN
                                                        BEGIN
                                                       RESP_VEC [INQ$K_KEYED] = UNKNOWN;
IF .INQ_FLAGS [EXISTS]
                                                              SELECTONE .FAB [FAB$B_ORG] OF
                            0912
```

```
M 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                          FORTRAN INQUIRE
                                                                                                                                               VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                                                                                                                                                                                                         Page (17
                         [FAB$C_IDX] :
    RESP_VEC [INQ$K_KEYED] = YES;
[FAB$C_SEQ,FAB$C_RE[] :
    RESP_VEC [INQ$K_KEYED] = NO;
                                                                 TES;
                                                          END:
                                                    END:
                                                FORM - character variable
                                                   If the file is connected for FORMATTED or UNFORMATTED I/O, then return the string 'FORMATTED' or 'UNFORMATTED' as is appropriate. If we can't tell, return 'UNKNOWN'.
                                             IF .INQUIRE [INQ$K_FORM] NEQ O THEN
                                                   BEGIN
RESP_VEC [INQ$K_FORM] = UNKNOWN;
IF .INQ_FLAGS [CCB_OK]
                                                           IF .CCB [LUB$V_FORMATTED]
                                                          RESP_VEC [INQ$K_FORM] = FORMATTED
ELSE IF .CCB [LUB$V_UNFORMAT]
                                                          THEN
                                                                 RESP_VEC [INQ$K_FORM] = UNFORMATTED;
                                                    END:
                                                FORMATTED - character variable
If FORM='FORMATTED' allowed? If so, answer 'YES'. There is
no way to answer 'NO'.
'UNKNOWN' if we can't tell.
                                             IF .INQUIRE [INQ$K_FORMATTED] NEQ O
                                             THEN
                                                    IF .INQ_FLAGS [EXISTS]
                                                    THEN
                                                          RESP_VEC [ING$K_FORMATTED] = YES
                                                          RESP_VEC [INQ$K_FORMATTED] = UNKNOWN;
                                                UNFORMATTED - character variable
Is FORM='UNFORMATTED' allowed? If so, answer 'YES'.
'NO' is impossible. 'UNKNOWN' if we can't tell.
                                   とととととととと
                                              IF .
                                                  .INQUIRE [INQ$K_UNFORMATT] NEQ O
                                                    IF . INQ_FLAGS [EXISTS]
                                                    THEN
```

FC

```
N 2
16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
FORSINGUIRE
                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                               FORTRAN INQUIRE
                                                                                                                                                                                                                                                 Page 18 (4)
     RESP_VEC [INQ$K_UNFORMATT] = YES
                                                              ELSE
                                                                      RESP_VEC [ING$K_UNFORMATT] = UNKNOWN;
                                                         ORGANIZATION - character string
Return the file organization as 'SEQUENTIAL', 'RELATIVE' or 'INDEXED'. Return 'UNKNOWN' if we can't open the file.
                                                       IF .INQUIRE [INQ$K_ORGANIZAT] NEQ O
                                                              BEGIN
                                                              RESP_VEC [INQ$k_ORGANIZAT] = UNKNOWN; IF .INQ_FLAGS [EXISTS]
                                                                      SELECTONE .FAB [FAB$B_ORG] OF
                                                                             SET
                                                                             [FAB$C_SEQ] :
    RESP_VEC [INQ$K_ORGANIZAT] = SEQUENTIAL;
[FAB$C_REL] :
    RESP_VEC [INQ$K_ORGANIZAT] = RELATIVE;
[FAB$C_IDX] :
                                                                                     RESP_VEC [INQ$K_ORGANIZAT] = INDEXED;
                                                                             TES:
                                                              END:
                                                         RECL - integer variable
Return the record length of the file. If the file is opened, the current length is taken. Else if the file exists the size used is the MAX of FAB$W_MRS and XAB$W_LRL.
The record length is in bytes unless the file is connected for UNFORMATTED, in which case the length is in longwords. If the file is connected SEGMENTED, then 2 bytes are subtracted from the length. This is the inverse of the calculations done by OPEN. If the record length can not be determined,
                                                              0 is returned.
                                                            .INQUIRE [INQ$K_RECL] NEQ O
                                                       THEN
                                                            BEGIN
RESP_VEC [INQ$K_RECL] = 0;
IF_.INQ_FLAGS [CCB_OK]
                                                                                                                            ! If recordsize is undefined
                                                                      BEGIN
                                                                      IF .CCB [LUB$W_RBUF_SIZE] NEQ 0
                                                                      THEN
                                                                             BEGIN
                                                                             RESP_VEC [INQ$K_RECL] = .CCB [LUB$W_RBUF_SIZE];
IF .CCB [LUB$V_SEGMENTED]
                                                                                     RESP_VEC [INQ$K_RECL] = .RESP_VEC [INQ$K_RECL] - 2;
                                                                             IF .CCB [LUB$V_UNFORMAT]
```

FC

```
FORSINGUIRE
1-017
                                                                                            16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
                      FORTRAN INQUIRE
                                                                                                                              VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                                                               RESP_VEC [INQ$K_RECL] = .RESP_VEC [INQ$K_RECL] / %UPVAL;
    966
967
                                                         END:
                                                   END
    968
                                              ELSE IF . INQ_FLAGS [FAB_OK]
    969
970
                                              THEN
                                                   RESP_VEC [INQ$K_RECL] = MAXU (.FAB [FAB$W_MRS], .XAB_BLOCK [XAB$W_LRL]);
                                             END:
                                           NEXTREC - integer variable
                                             If the file is connected for direct access, return the next logical
                                              record number. If it is not connected for direct access, return 0.
                      1040
1041
1042
1043
10445
1046
1046
1047
1051
1051
1055
1056
1057
1059
                                             .INQUIRE [INQ$K_NEXTREC] NEQ O
    980
981
                                        THEN
                                             BEGIN
    982
983
                                             RESP_VEC [INQ$K_NEXTREC] = 0:
IF .INQ_FLAGS [CCB_OK] THEN IF .CCB [LUB$V_DIRECT]
    984
985
                                                   RESP_VEC [INQ$K_NEXTREC] = .CCB [LUB$L_LOG_RECNO];
    986
987
                                             END:
    988
    989
                                          BLANK - character variable
    990
                                             If the file is connected for FORMATTED, return the BLANK= value in effect, either 'ZERO' or 'NULL'. If we can't tell,
    991
992
                                             return 'UNKNOWN'.
    993
    994
                                            .INQUIRE [INQ$K_BLANK] NEQ 0
    995
                                        THEN
   996
                                             BEGIN
                                             RESP_VEC [INQ$K_BLANK] = UNKNOWN;
IF .INQ_FLAGS [CCB_OK] THEN IF .CCB [LUB$V_FORMATTED]
    998
                       1060
                       1061
1062
1063
1064
1065
    999
                                              THEN
   000
                                                   BEGIN
   1001
                                                    IF .CCB [LUB$V_NULLBLNK]
                                                   THEN
   1003
                                                         RESP_VEC [INQ$K_BLANK] = NULL
                       1066
   1004
                                                   ELSE
   1005
                                                         RESP_VEC [INQ$K_BLANK] = ZERO;
                       1068
   1006
                                                   END:
                       1069
   1007
                                             END:
   1008
                       1070
   1009
                       1071
                                          RECORDIYPE - character variable
Return the file's recordtype. 'FIXED' or 'VARIABLE'. Return
'SEGMENTED' if the file is currently connected for SEGMENTED.
'UNKNOWN' if we can't tell.
                       1072
   1010
   1011
                       1074
  1012
                       1076
1077
   1014
   1015
                                            .INQUIRE [INQ$K_RECORDTYP] NEQ O
   1016
                       1078
   1017
                       1079
                                             BEGIN
                                             RESP_VEC [INQ$K_RECORDTYP] = UNKNOWN;
IF .INQ_FLAGS [EXISTS]
   1018
                       1080
   1019
                       1081
   1020
  1021
                                                   SELECTONEU . FAB [FAB$B_RFM] OF
```

FOI

1-

Page 20 (4)

..........

FO

```
FORSINQUIRE
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINGUIR.B32:1
                         FORTRAN INQUIRE
  1103
1104
1105
1106
1107
11108
11109
11113
11113
11114
11118
11119
11121
11123
                         1163
1164
1165
1166
1168
1169
1171
1173
1173
1174
1177
1178
1177
1180
1181
1183
                                               If we got an error, now's the time to signal it.
                                             IF NOT .RET_STATUS
                                                  FOR$$SIG_NO_LUB (.RET_STATUS, .UNIT);
                                               Pop the CCB if we have one.
                                             IF .INQ_FLAGS [CCB_OK]
                                                  FOR$$CB_POP ();
                                             Return success - we only get here if there has been no error
                                            RETURN 1;
                                             END:
                                                                                                                                  FORSINGUIRE FORTRAN INQUIRE
                                                                                                                      .TITLE
                                                                                                                      .PSECT
                                                                                                                                   _FOR$CODE,NOWRT, SHR, PIC,2
                                                                                                00000 P.AAA:
00001 P.AAB:
00004 P.AAC:
                                                                                                                      .ASCII
.ASCII
                                                                                         254544545554454554445555
25454836529EA6636CE3333
                                                                                   5FE955FE5E55915F9F444
                                                                                                                                   YES!
                                                                                                                                   \NO\
                                                                                                00006 P.AAD:
00000 P.AAE:
                                                                            4555554444C282723E222
                                                                                                                       .ASCII
                                                                                                                                   \UNKNOWN\
                                                                4F34451248
                                                                      44454444444445544445544445
                                                                                                                       .ASCII
                                                                                                                                   \DIRECT\
                                                                                                00013 P.AAF:
                                                                                                                                   \KEYED\
                                                                                                00018 P.AAG:
00022 P.AAH:
                                            49 45 45
                                                         454D95
                                      41 44 54
                                                   5441564
                                                                                                                                   \SEQUENTIAL\
                                                                                                                                   \FORMATTED\
                                                                                               0002B P.AAI:
00036 P.AAJ:
0003E P.AAK:
00045 P.AAL:
                                                                                                                                   \UNFORMATTED\
\RELATIVE\
                                                                                                                                   \INDEXED\
                                                                                                                                   \NULL\
                                                                                                00049 P.AAM:
                                                                                                                                   \ZERO\
                                                                                                0004D P.AAN:
                                                                                                                                   \FIXED\
                                                                                                         P.AAO:
                                                                                                                                   \VARIABLE\
                                                                                                         P.AAP:
                                                                                                                                   \SEGMENTED\
                                                                                                00063 P.AAQ:
                                                                                                                                   \FORTRAN\
                                                                                                0006A P.AAR:
                                                                                                                                   \LIST\
                                                                                                         P.AAS:
                                                                                                                                   \NONE \
                                                                                                         P.AAT:
                                                                                                                                   \STREAM\
                                                                                                         P.AAU:
                                                                                                                                   \STREAM_CR\
                                                                                                00081 P.AAV:
                                                                                                                      .ASCII
                                                                                                                                   \STREAM_LF\
                                                                                               0008A BL
                                                                                                                       BLKB
                                                               00000000*
                                                                               00000000*
00000000* 00000000* 00000000* 00000000*
                                                                                                                                  <P.AAA-RESP_VALS>, <P.AAB-RESP_VALS>, -
<P.AAC-RESP_VALS>, <P.AAD-RESP_VALS>, -
<P.AAE-RESP_VALS>, <P.AAF-RESP_VALS>, -
<P.AAG-RESP_VALS>, <P.AAH-RESP_VALS>, -
<P.AAI-RESP_VALS>, <P.AAJ-RESP_VALS>, -
                                                                                                                      .LONG
                               00000000* 00000000*
```

FO

FOR 1-0		UIRE		FOR	TRAN	INQ	UIRE								1	F 3 6-Sep-1984 00:27 4-Sep-1984 12:32	2:20 VAX-11 Bliss-32 V4.0-742 Page 23 2:02 [FORRTL.SRC]FORINGUIR.B32;1 (6)
08	ns	04	04	07	0.0	00	00	0.4	05	04	07	02	07	01	00057	DEED LENG.	<pre><p.aak-resp_vals>, <p.aal-resp_vals>, - <p.aam-resp_vals>, <p.aan-resp_vals>, - <p.aao-resp_vals>, <p.aap-resp_vals>, - <p.aaq-resp_vals>, <p.aar-resp_vals>, - <p.aas-resp_vals>, <p.aat-resp_vals>, - <p.aau-resp_vals>, <p.aav-resp_vals>, - </p.aav-resp_vals></p.aau-resp_vals></p.aat-resp_vals></p.aas-resp_vals></p.aar-resp_vals></p.aaq-resp_vals></p.aap-resp_vals></p.aao-resp_vals></p.aan-resp_vals></p.aam-resp_vals></p.aal-resp_vals></p.aak-resp_vals></pre>
08	U,	04	04	or .	00	OB	09	09	09	06	04	04	07	09	000F3	RESP_TYPES:	1. 3. 2. 7. 6. 5. 10. 9. 11. 8. 7. 4. 4 :
02	02	01	01	02	02	02	02	02	02	00	01 54	01 02 41	01 02 44	01 00# 01 02 2E	00112 00113 00114	BYTE	0[22] 0[7] 1, 1, 1, 1, 0, 2, 2, 2, 2, 2, 1, 1, 2, -
																.EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN	FOR\$SERR_OPECLO FOR\$SERRSNS_SAV FOR\$SOPECLO_ARG FOR\$\$CB_PUSH, FOR\$\$CB_POP FOR\$\$CB_FETCH, FOR\$\$STG_NO_LUB LIB\$SIG_TO_RET, LIB\$STOP FOR\$\$NEXT_CUN, SYS\$PARSE SYS\$SEARCH, SYS\$OPEN SYS\$CLOSE, SYS\$SETAST
										5E	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	8C4C4C4C4C4C4C4C4C4C4C4CEA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	9E 7C	00007 0000B	MOVAB CLRQ CLRQ	FOR\$INQUIRE, Save R2,R3,R4,R5,R6,R7,R8,R9,- R10,R11 -936(SP), SP INQUIRE INQUI

FORSINGUI	RE	FORTRAN INQUIRE				1	G 3 6-Sep-1984 00 4-Sep-1984 1	0:27:20	0 VAX-11 Bliss-32 V4.0-742 2 [FORRTL.SRC]FORINGUIR.B32;1	Page 24 (6)
0050	8F	00	6E	5570	00	2C 00062 00069	MOV		0, (SP), #0, #80, \$RMS_PTR	; 0390
		FE7C FF92	CD	FE7C 5003 4F02	000 8 8 0 C C C C	BO 00060	MOV	W #	20483, \$RMS_PTR 20226, \$RMS_PTR+22	
		FE9B FEAO	CD		02	B0 0006C B0 00073 90 0007A 9E 0007F 9E 00086	MOVI	B #	2, \$RMS PTR∓31 AB BLOCK, \$RMS PTR+36	
		FE7C FE92 FE9B FEAC FEAC FEB1	CD CD CD CD CD CD	FESO FECC FF6B		9E 00086 9E 0008D	MOVI MOV MOV MOVI MOVI	AB NAB P	AM_BLOCK, \$RMS_PTR+40 .AAW, \$RMS_PTR+48	
0060	8F	00 FEB1	6E		00	B0 0006C B0 00073 90 0007A 9E 00086 9E 0008D 90 00094 2C 00099	MOV!	C5 #	20483, \$RMS_PTR 20226, \$RMS_PTR+22 2, \$RMS_PTR+31 AB_BLOCK, \$RMS_PTR+36 AM_BLOCK, \$RMS_PTR+40 .AAW, \$RMS_PTR+48 4, \$RMS_PTR+53 0, (SP), #0, #96, \$RMS_PTR	: 0392
		FECC	CD	FECC 6002	04 00 CD 8F 01	UUUAU	MOVI	W #	24578, \$RMS_PTR	
		FECC FECE FEDO FED6 FED8	CD	00F8	CE 01	BO 000A3 8E 000AA 9E 000AF 8E 000B6 9E 000BB 2C 000C2	MOV/ MNE	AB RI	ES_OR_EXP_NAME, \$RMS_PTR+4	
	20	00 FED8	CD 6E	00F8	CE	20 00002	MOV MNE MOV MNE MOV	AB RI	24578, \$RMS_PTR 1, \$RMS_PTR∓2 ES_OR_EXP_NAME, \$RMS_PTR+4 1, \$RMS_PTR+10 ES_OR_EXP_NAME, \$RMS_PTR+12 0, (SP), #0, #44, \$RMS_PTR	0393
0000	8F	00 FE50	CD 6E	FE50 2C1D	00 00 8F 00	000C7 B0 000CA 2C 000D1	MOV	W #	11293, \$RMS_PTR 0, (SP), #0, #192, RESP_VEC	0398
0000	30	00	6E	08	OO	BO 000CA 2C 000DA 2C 000DA 2C 000DA 000DF 8A 000E2 DO 000E8	MOV		0, (SP), #0, #48, VAR_LENGTHS	: 0399
			57 5A	8300	CE 3F	8A 000E2	BIC		2 (B. 14), 1 (B. 14) (B. 14) (B. 14) (B. 15) (B. 14)	
		EC	AD		55	DO 000E5 D4 000E8 D0 000EA	MOVI CLRI	L RI	63, INQ_FLAGS 1, RET_STATUS ES_OR_EXP_LEN 1, L_UNWIND_ACTION AR_LENGTHS	0405 0406 0407 0414 0423
			70	8300	CE 7E	9F 000EE	CLRI MOVI PUSI CLRI	HAB V	AR LENGTHS (SP)	0423
				FO F8	AD AD 2F	9F 000F4	CLRI PUSI PUSI PUSI	HAB N	EF_DSC AM_DSC	
			70	FF2C	CD	9F 000FC	PUSI	HAB II	NQUIRE	
		00000000	7E 5 00	04	6C AC 08	9A 00100 9F 00103 FB 00106	MOV: PUSI	HAR KI	AP), -(SP) EYWD 8, FOR\$\$OPECLO_ARG NOUIRE+88	
		0000000		84	AD 10	D5 0010D	TSTI	I II		0432
		OODE	O7 CE	90	AD 20 05	E9 00112 90 00116	CALI TSTI BEQI BLBO	C II	NQUIRE+100, 1\$	: 0434
		OODE	CE	5570	10	90 0011B	1\$: MOVE	B #	16, VAR LENGTHS+22	0438 0444
			CE 56 54	FE7C FECC FF64	CD	90 00110 9E 00122 9E 00127 D5 00120 12 00130	1\$: MOVE 2\$: MOVE TSTE	AB NA	\$ 16, VAR LENGTHS+22 AB_BLOCK, FAB AM_BLOCK, NAM NQUIRE+56	0445
				94	08 AD	12 00130 05 00132	BNE	I II	NQUIRE+104	
				0	CD CD 08 AD 03 16F2 AD 19	12 00135 31 00137	BNEO BRW BISE TSTI	3 3	\$ 4\$	
			57	94	AD 19	88 0013A D5 0013D 13 00140	TSTI BEQI	1	34, INQ_FLAGS NQUIRE+T04	: 0465 : 0467
		OOFF	50 8F	94	AD 60	13 00110 E9 00112 90 00116 11 0011B 90 00127 9E 00127 D5 00130 12 00135 31 00137 88 0013A D5 00130 13 00140 D0 00144 B1 00148 90 00141	MOVI CMPI BGT	i ii	NQUIRE+104 DNAME	0472
		35 30	A6 A6		AD 60 0B 60	1A 0014B 90 0014D	BGT! MOVE	RU 49	DNAME), 53(FAB) (DNAME), 48(FAB)	0476 0477
		30	A6	04	AO	DO 00151	MOVI	4	(DNAME), 48(FAB)	: 0477

OR\$INQUIRE	FORTRAN INQUIRE		H 3 16-Sep-1984 00:27:20 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:02 [FORRTL.SRC]FORINGUIR.B32;1	Page 2
		57 FF64	03 11 00156 BRB 5\$ 02 8A 00158 4\$: BICB2 #2, INQ FLAGS CD D5 00158 5\$: TSTL INQUIRE \$56	: 047 : 048 : 048
	OOFF	50 FF64 8F	02 8A 00158 4\$: BICB2 #2, INQ FLAGS CD D5 0015B 5\$: TSTL INQUIRE \$56 1A 13 0015F BEQL 7\$ CD D0 00161 MOVL INQUIRE \$56, FNAME 60 B1 00166 CMPW (FNAME), #255 0B 1A 0016B BGTRU 6\$ 60 90 0016D MOVB (FNAME), 52(FAB) A0 D0 00171 MOVL 4(FNAME), 44(FAB) 03 11 00176 BRB 7\$	048
	34 20	A6 A6 04	0B 1A 0016B BGTRU 6\$ 60 90 0016D MOVB (FNAME), 52(FAB) A0 D0 00171 MOVL 4(FNAME), 44(FAB) 03 11 00176 BRB 7\$	049
	44	57 57	03 11 00176 BRB 7\$ 02 8A 00178 6\$: BICB2 #2, INQ_FLAGS 01 E1 0017B 7\$: BBC #1, INQ_FLAGS, 12\$ 56 DD 0017F PUSHL FAB	049 049 048 049 050
	00000000G 00100038	00 21 8F 34	01 FB 00181 CALLS #1, SYS\$PARSE 50 E9 00188 BLBC R0, 9\$	050
	0B 41	A6	A4 D3 0018B BITL 52(NAM), #1048632 17 12 00193 BNEQ 9\$ 06 E1 00195 BBC #6, 65(FAB), 8\$ 56 DD 0019A PUSHL FAB	051
	000000006	00	06 E1 00195 BBC #6, 65(FAB), 8\$ 56 DD 0019A PUSHL FAB 01 FB 0019C CALLS #1, SYS\$SEARCH 0A 11 001A3 BRB 10\$	
	03	A4 OB 57 57	A4 90 001A5 8\$: MOVB 11(NAM), 3(NAM) 03 11 001AA BRB 10\$ 02 8A 001AC 9\$: BICB2 #2, INQ_FLAGS 01 E1 001AF 10\$: BBC #1, INQ_FLAGS, 12\$ A4 95 001B3 TSTB 11(NAM)	05 05 05 05
	10	0B	01 E1 001AF 10\$: BBC #1, INQ_FLAGS, 12\$ A4 95 001B3 TSTB 11(NAM) 03 13 001B6 BEQL 11\$ 02 88 001B8 BISB2 #2, INQ_FLAGS	
		57 03	03 13 001B6 BEQL 11\$ 02 88 001B8 BISB2 #2, INQ_FLAGS A4 95 001BB 11\$: TSTB 3(NAM) 03 13 001BE BEQL 12\$	05
	1D 07	57 A6 57	A4 95 001BB 11\$: TSTB 3(NAM)  03 13 001BE BEQL 12\$  08 88 001C0 BISB2 #8, INQ_FLAGS  01 88 001C3 12\$: BISB2 #1, 7(FAB)  03 E1 001C7 BBC #3, INQ_FLAGS, 14\$  56 DD 001CB PUSHL FAB  01 FB 001CD CALLS #1, SYS\$OPEN  50 E9 001D4 BLBC R0, 13\$  56 DD 001D7 PUSHL FAB  01 FB 001D9 CALLS #1, SYS\$CLOSE  10 88 001E0 BISB2 #16, INQ_FLAGS  03 11 001E3 BRB 14\$  08 84 001E5 13\$: BICB2 #8 IND_FLAGS	05 05 05 05
	0000000G	00 0E	56 DD 001CB PUSHL FAB 01 FB 001CD CALLS #1, SYS\$OPEN 50 E9 001D4 BLBC R0, 13\$	05
	00000000G	00 57	56 DD 001D7 PUSHL FAB 01 FB 001D9 CALLS #1, SYS\$CLOSE 10 88 001E0 BISB2 #16, INQ FLAGS	059
		57 55 03	56 DD 001CB PUSHL FAB 01 FB 001CD CALLS #1, SYS\$OPEN 50 E9 001D4 BLBC RO, 13\$ 56 DD 001D7 PUSHL FAB 01 FB 001D9 CALLS #1, SYS\$CLOSE 10 88 001E0 BISB2 #16, INQ_FLAGS 03 11 001E3 BRB 14\$ 08 8A 001E5 13\$: BICB2 #8, INQ_FLAGS A4 9A 001E8 14\$: MOVZBL 3(NAM), RES_OR_EXP_LEN 04 12 001EC BNEQ 15\$ A4 9A 001EE MOVZBL 11(NAM), RES_OR_EXP_LEN 01 E1 001F2 15\$: BBC #1, INQ_FLAGS, T6\$ A6 94 001F6 CLRQ 44(FAB)	05
	15	55 OB	04 12 001EC BNEQ 15\$ A4 9A 001EE MOVZBL 11(NAM), RES_OR_EXP_LEN 01 E1 001F2 15\$: BBC #1, INQ_FLAGS, T6\$ A6 94 001F6 CLRB 52(FAB) A6 7C 001F9 CLRQ 44(FAB)	050 050 050 050 050 050 050 050 050 050
		34 20 00 04	A4 9A 001EE MOVZBL 11(NAM), RES_OR_EXP_LEN 01 E1 001F2 15\$: BBC #1, INQ_FLAGS, T6\$ A6 94 001F6 CLRB 52(FAB) A6 7C 001F9 CLRQ 44(FAB) A4 D4 001FC CLRL 12(NAM) A4 D4 001FF CLRL 4(NAM) B154 D0 00202	050
	000000006		A6 94 001F6 CLRB 52(FAB) A6 7C 001F9 CLRQ 44(FAB) A4 D4 001FC CLRL 12(NAM) A4 D4 001FF CLRL 4(NAM) 56 DD 00202 PUSHL FAB 01 FB 00204 CALLS #1, SYS\$PARSE 01 E0 0020B 16\$: BBS #1, INQ FLAGS, 17\$	05
	03	00 57 A4 00F8	01 FB 00204 CALLS #1, SYS\$PARSE 01 E0 0020B 16\$: BBS #1, INQ_FLAGS, 17\$ 08B 31 0020F BRW 22\$ CE 9E 00212 17\$: MOVAB RES_OR_EXP_NAME, 4(NAM) 55 90 00218 MOVB RES_OR_EXP_LEN, 3(NAM) AE D4 0021C CLRL LUN_FLAG 5A E8 0021F BLBS RET_STATUS, 18\$	060
	04	A4 00F8 A4 04	55 90 00218 MOVB RES_OR_EXP_LEN, 3(NAM) AE D4 0021C CLRL LUN_FLAG SA E8 0021F BLBS RET_STATUS, 18\$	060 061

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		. 0	0082 5E AE 02 AE 60 7E	31 00222 DD 00225 9F 00227	18\$:	BRW PUSHL PUSHAB CALLS TSTL	23\$ SP LUN_FLAG	061
	0000000G	00	02 AE 60	FB 0022A D5 00231 13 00234			LUN_FLAG #2, FOR\$\$NEXT_LUN LUN_FLAG 21\$	061
	0000000G	00 58	7E 01 50	31 002227 PF 0002237 PB 0002334 D5 0002336 PB 000238 D0 000234 PB 000244 D5 000244 D5 000244 D5 000245 DD 000245 DD 00025		CALLS MOVL	-(SP) #1, SYS\$SETAST RO, AST_STATUS UNIT	063
	0000000G	00	6E 01 5B	DD 00242 FB 00244 D5 0024B		PUSHL CALLS TSTL	UNIT #1, FOR\$\$CB_FETCH CCB 20\$	063
55	20 F8	35 50 BB 00F	50	2D 00257 0025D		CLRL CALLS MOVL PUSHL CALLS TSTL BEQL BLBC MOVZBL CMPC5	20\$ -4(CCB), 20\$ -9(CCB), R0 R0, a-8(CCB), #32, RES_OR_EXP_LEN, - RES_OR_EXP_NAME 20\$	
	0000V	57 CF	01 6E 01	12 00260 88 00262 DD 00265 FB 00267		BNEQ BISB2 PUSHL CALLS MOVL CMPL BNEQ PUSHL CALLS	#1, INQ_FLAGS UNIT #1, PUSH_CCB R0, STATUS	064
		CF 59 09	65 50 58 09 01	DO 0026C D1 0026F 12 00272		MOVL CMPL BNEQ	19\$	064
	0000000G	00 67		DD 00274 FB 00276 E9 0027D	19\$:	BLBL	#1, SYS\$SETAST STATUS, 27\$	069
		57 09	OC SF	04 00280 88 00283 11 00286 01 00288	20\$:	CLRL BISB2 BRB CMPL	#1, SYS\$SETAST STATUS, 27\$ L_UNWIND_ACTION #T2, INQ_FLAGS 27\$ AST_STATUS, #9	069 069 069 069
	0000000G	00 04	58 09 01 01 AE 8A	12 002657 C	215:	BNEQ PUSHL CALLS TSTL BNEQ	AST_STATUS, #9 21\$ #1 #1, SYS\$SETAST LUN_FLAG 18\$	067
	04 03	A4 20	4A A6 A6	11 0029B D0 0029D 90 002A2 11 002A7	22\$:	BRB MOVL MOVB	27\$ 44(FAB), 4(NAM) 52(FAB), 3(NAM) 27\$	061 068 068 069
		6E FF30	) CD	DO 002A9 DO 002AE	23\$: 24\$:	MOVL MOVL	INQUIRE+4, UNIT	069
	00000077	8F 57	50 2B	D1 002B3 14 002BA		CMPL BGTR BISB2	INQUIRE+4, UNIT UNIT, RO 27\$ RO, #119 27\$ #1, INQ_FLAGS RO #1, PUSH_CCB	070
	0000v	CF 59	50 01 50	DD 002BF FB 002C1 D0 002C6		PUSHL CALLS MOVL	RO #1, PUSH CCB RO, STATUS	070 071
		18 05 57	4A6A6EDE440B10000000000000000000000000000000000	DO 002A9 DO 002AE 19 002B1 D1 002B3 14 002BA 88 002BC DD 002CF FB 002C1 DO 002C6 E9 002CC E9 002CF 88 002D3 11 002D6		BRB MOVL MOVL BLSS CMPL BGTR BISB2 PUSHL CALLS MOVL BLBC CLRL BLBC BISB2	#1, PUSH_CCB R0, STATUS STATUS, 26\$ L_UNWIND_ACTION -4(CCB), 25\$ #14, INQ_FLAGS 27\$	071 071 071 072 073 073
	EC	AD 0000000	OG 00	11 00206 16 00208 00 0020E 11 002E2	258:	BRB JSB MOVL BRB	FOR\$SCB_POP #1, L_UNWIND_ACTION 27\$	071 073 073

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	09		5A 57 56 54	0094	9 DO 002E4 26\$: MOVL STATUS, RET STATUS	; 0738 ; 0747 ; 0750 ; 0751 ; 0763
	07 0A	0080	57 57 07 CE		B 9E 002EB MOVAB 68(R11), FAB B 9E 002EF MOVAB 148(R11), NAM D D5 002F4 28\$: TSTL INQUIRE+120 6 13 002F7 BEQL 31\$ 3 E0 002F9 BBS #3, INQ_FLAGS, 29\$ 5 E0 002FD BBS #5, INQ_FLAGS, 30\$ 7 E9 00301 BLBC INQ_FLAGS, 30\$ 1 CE 00304 29\$: MNEGL #1, RESP_VEC+120 4 11 00309 BRB 31\$	0765 0766
		0000		0080 88	1 CE 00304 29\$: MNEGL #1, RESP_VEC+120 4 11 00309 BRB 31\$ E D4 0030B 30\$: CLRL RESP_VEC+120 D D5 0030F 31\$: TSTL INQUIRE+124 6 13 00312 BEQL 34\$ 2 E0 00314 BBS #2, INQ_FLAGS, 32\$ E1 00318 BBC #5, INQ_FLAGS, 33\$	0770 0770
	07 0A	0084	57 57 07 CE			0778 0779
				0084 AC	4 11 00324 BRB 34\$ E D4 00326 33\$: CLRL RESP_VEC+124 D D5 0032A 34\$: TSTL INQUIRE+128 E 13 0032D BEQL 36\$	0783 0791
		0088	O7 CE	0088 B0	1 CE 0031F 32\$: MNEGL #1, RESP_VEC+124 4 11 00324 BRB 34\$ E D4 00326 33\$: CLRL RESP_VEC+124 D D5 0032A 34\$: TSTL INQUIRE+128 E 13 0032D BEQL 36\$ F E9 0032F BLBC INQ_FLAGS, 35\$ E D0 00332 MOVL UNIT, RESP_VEC+128 H 11 00337 BRB 36\$ E D4 00339 35\$: CLRL RESP_VEC+128 D D5 0033D 36\$: TSTL INQUIRE+132 D D5 00340 BEQL 39\$ E D4 00340 BEQL 39\$	0793 0793 0793 0804
	07	008C	57 CE	В0	1 E1 00342 BBC #1, INQ_FLAGS, 37\$ 1 CE 00346 MNEGL #1, RESP VEC+132	; 0804 ; 0807 ; 0809
	09 04	FC	57 AB	0080	E D4 00339 35\$: CLRL RESP_VEC+128 D5 0033D 36\$: TSTL INQUIRE+132 C 13 00340 BEQL 39\$ BEQL 39\$ C E 00346 MNEGL M1, INQ_FLAGS, 37\$ MNEGL M1, RESP_VEC+132 BRB 38\$ E D4 0034D 37\$: CLRL RESP_VEC+132 E1 00351 38\$: BBC M2, INQ_FLAGS, 39\$ E1 00355 BBC M5, -4(CCB), 39\$ E D4 0035A CLRL RESP_VEC+132 D5 0035E 39\$: TSTL INQUIRE+136 D5 00361 BEQL 40\$ D0 00363 MOVL INQUIRE+136, NAME_DSC MOVZBL 3(NAM), R1 MOVC5 R1, @4(NAM), W32, (NAME_DSC), @4(NAME_DSC)	0812
			50 51 84	008C 84 84 03	E D4 0034D 37\$: CLRL RESP_VEC+132 E E1 00351 38\$: BBC	0814 0822 0827 0828 0828
60	20	04	84	04 88	D D5 00373 40\$: ISTL INQUIRE+140	: 0837
	1F 07	0094 FC 0094	CE 57 AB CE		D 13 00376 BEQL 44\$ D 00378 MOVL #3, RESP_VEC+140 BBC #2, INQ_FLAGS, 43\$ E1 00381 BBC #4, -4(CCB), 41\$ D 00386 BRB 44\$ B 95 00380 41\$: TSTB -3(CCB) BBC #2, INQ_FLAGS, 43\$ BRB 44\$ B 95 00380 41\$: TSTB -3(CCB) BBC #4, RESP_VEC+140 BBC #4, RESP_VEC+140 BBC #4, RESP_VEC+140 BBB 42\$ BBB 44\$ D 00392 MOVL #5, RESP_VEC+140 BBB 44\$ D 00399 42\$: MOVL #6, RESP_VEC+140 BBB 44\$	0840 0841 0843
		0094	CE	FD	3 DO 00378	0846
		0094 0094	CE CE	ВС	## 11 0034B	0850 : 0843 : 0852 : 0861

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	07	0098	57 CE		03	E1 00	3AA 3AE	MOVL	#3. INQ_FLAGS, 45\$ #1, RESP_VEC+144	: 0863 : 0865
		0098	CE	со	03DD336863507	DO 00 D5 00	33853333333333333333333333333333333333	MOVL	46\$ #3, RESP_VEC+144 INQUIRE+148	: 0867 : 0874
	24	009C	CE 57 50		03	13 00 D0 00 E1 00 12 00 12 00 12 00	3BF 3C4	BEQL MOVL BBC MOVZBL BNEQ CMPB BNEQ BRB CMPB	#3, RESP_VEC+148 #3, INQ_FLAGS, 51\$ 29(FAB), RO 47\$	0877 0878 0881 0884 0885
				10	A6 08	9A 00	3C8 3CC	MOVZBL	29(FAB), RO 47\$	0881
			01	1F	A6 13	91 00	3CE 3D2	CMPB BNEQ	31 (FAB), #1	
			10		05 50	11 00 91 00	3D4 3D6 47\$:	BRB CMPB	50\$ 48\$ RO, #16 49\$	; 0887 ; 0890
		009C	CE		01	12 00 00 00	3DB 48\$:	MOVL	49\$ #1, RESP_VEC+148 51\$	: 0891
			20		50 50	91 00	3E2 49\$:	BRB CMPB BNEQ	RO, #32 51\$	: 0892
		009C	CE	E4	01 05 05 05 05 05 05 05 05 05 05 05 05 05	91 00 12 00 00 00 05 00 13 00 00 00	3E7 50\$: 3EC 51\$:	MOVI	#2 RESP VEC+148	0893
		0000	ÇĘ		03	DO 00	SEF 3F1	MOVL	#3. RESP_VEC+184	: 0907
	16		CE 57 50 20	10	A6 50	E1 00 9A 00 91 00	3FA 3FE	TSTL BEQL MOVL BBC MOVZBL CMPB BNEQ MOVL	INQUIRE+T84 54\$ #3, RESP_VEC+184 #3, INQ_FLAGS, 54\$ 29(FAB), RO RO, #32 52\$ #1, RESP_VEC+184 54\$ RO	: 0908 : 0911 : 0914
		0000	CE			12 00 00 00	401 403	BNEQ MOVL	52\$ #1, RESP_VEC+184	0915
					01 0E 50 50 50 50	D5 00	408 40A 52\$:	DAD	54 <b>\$</b> RO	: 0916
			10		50	13 00	40E 411	CMPB	RO 53\$ RO, #16 54\$	
		0000	CE	C4	02 AD 1E	12 000 00 000 05 000	413 53\$: 418 54\$:	TSTL	#2, RESP_VEC+184 INQUIRE+T52 56\$ #3, RESP_VEC+152	0917 0930
	16	00A0	CE		03	13 000 00 000	410	WOAL	#3, RESP_VEC+152	: 0933
	15	00A0	CE 57 07 CE	FD	03 02 AB 07	DO 000 E1 000 E9 000 DO 000	413 53\$: 418 54\$: 418 54\$: 410 422 426 427 431 55\$: 438 56\$: 438 56\$:	BEQL MOVL BBC BLBC MOVL BRB BBC MOVL TSTL BEQL BBC MOVL BRB	#3, RESP_VEC+152 #2, INQ_FLAGS, 56\$ -3(CCB), 55\$ #7, RESP_VEC+152 56\$ #1, -3(CCB), 56\$	: 0934 : 0936 : 0938
	05	OOAO	AB CE		0A 01	E1 004	431 558:	BRB BBC	56\$ #1, -3(CCB), 56\$	: 0939
		UUAU	CE	C8	01 08 AD 10	DO 000 D5 000 13 000	43B 56\$:	TSTL	INQUIRE+T56	0939 0941 0951
	07	00A4	57 CE		03	E1 000	440	BBC	#3. INQ_FLAGS, 57\$ #1, RESP_VEC+156	0953 0955
		00A4	CE		05	11 00	449 448 578 ·	BRB	58\$	:
		00/4		CC	05 03 AD 10 03	D5 000	44B 57\$: 450 58\$:	TSTL	INQUIRE+T60	0957 0966
	07	8A00	57 CE		03	DO 000 D5 000 E1 000 D0 000 11 000	448 57\$: 450 58\$: 455 455 456 460 59\$: 465 60\$:	MOVL TSTL BEQL BBC MOVL BRB MOVL TSTL BEQL	76\$ #1, -3(CCB), 56\$ #8, RESP_VEC+152 INQUIRE+T56 58\$ #3, INQ_FLAGS, 57\$ #1, RESP_VEC+156 58\$ #3, RESP_VEC+156 INQUIRE+T60 60\$ #3, INQ_FLAGS, 59\$ #1, RESP_VEC+160	0968 0970
		00A8	CE		01 05 03	11 00 00 00	45E 460 59\$:	BRB MOVL	60\$ #3, RESP_VEC+160 INQUIRE+176 63\$	
				DC	03 AD 20	DO 000 D5 000 13 000	460 59\$: 465 60\$:	TSTL	INQUIRE+176	0972 0980

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	23	0088	CE 57 50 1D	03 03 06 07 06 16	DO 0046A	: 098
		0088	CE	07	12 00477 BNEQ 61\$ DO 00479 MOVL #6, RESP_VEC+176	; 090 ; 090 ; 090
			10	50	11 0047E 91 00480 61\$: CMPB RO, #16	: 099
		00B8	CE	09	DO 00479	099
			20	50	91 0048C 62\$: CMPB RO, #32 12 0048F BNEQ 63\$	099
		00B8	CE DO	5079A055AA2E2B5	DO 00491 MOVL #10, RESP_VEC+176 D5 00496 63\$: TSTL INQUIRE+164	10
	21		57 00AC	CE	13 00499 BEQL 67\$ D4 0049B CLRL RESP VEC+164 E1 0049F BBC #2, INQ FLAGS, 65\$	10
	21		02	AB	13 00/44	10
	05	00AC FD	CE D2	AB 03	13 004A6 3C 004AB E1 004AE BEQL 67\$ MOVZWL -46(CCB), RESP VEC+164 BBC #3, -3(CCB), 64\$	10
	20	00AC FD	CE D2 AB CE AB CE	AB 03 02 01 04 19	B5 004A3	100 100 100 100 100 100
	15	OOAC	57	19	C6 004BD DIVL2 #4, RESP_VEC+164 11 004C2 BRB 67\$ E1 004C4 65\$: BBC #4, INQ_FLAGS, 67\$	10
	,		50 36 50 FESA	04 A6 CD 05	E1 004AE BBC #3, -3(CCB), 64\$ C2 004B3 SUBL2 #2, RESP_VEC+164 E1 004B8 64\$: BBC #1, -3(CCB), 67\$ C6 004BD DIVL2 #4, RESP_VEC+164 11 004C2 BRB 67\$ E1 004C4 65\$: BBC #4, INQ_FLAGS, 67\$ 3C 004C8 MOVZWL 54(FAB), RO CMPW XAB_BLOCK+10, RO 1B 004D1 BLEQU 66\$ 3C 004D3 MOVZWL XAB_BLOCK+10, RO	10
			50 FE5A	05 CD 50	1B 004D1 BLEQU 66\$ 3C 004D3 MOVZWL XAB_BLOCK+10, RO	
		OOAC	CE D4	AD	DU UU4DO 003: MUVL KU, KESP VEL+104	: 10
	OR		57 0080	CE	D4 UU4EZ LLKL KESP_VEL+100	104
	0B 06	00B0	AB	04 AB	E1 004E6 BBC #2, INQ FLAGS, 68\$ E1 004EA BBC #4, -4(CCB), 68\$ D0 004EF MOVL -32(CCB), RESP VEC+168	
			D8	AD 1E	DO 004EF MOVL -32(CCB), RESP_VEC+168 D5 004F5 68\$: TSTL INQUIRE+172 13 004F8 BEQL 70\$	100
	15	00B4	CE 57	03	DO 004FA MOVL #3, RESP VEC+172 E1 004FF BBC #2, INQ_FLAGS, 70\$	100
А	07	00B4	AB CE	06 08	D\$ 004DD 67\$: T\$TL	100
		0084	CE	05 00	11 00511 BRB 70\$' D0 00513 69\$: MOVL #12, RESP_VEC+172 D5 00518 70\$: TSTL INQUIRE+180	106
		2000	EO	AD 5A	DO 00513 69\$: MOVL #12, RESP_VEC+172 D5 00518 70\$: TSTL INQUIRE+180 13 00518 BEQL 76\$	:
	43	00BC	CE 57 50 1F	03	DO 0051D MOVL #3, RESP_VEC+180 E1 00522 BBC #3, INQ_FLAGS, 75\$ 94 00526 MOVZBL 31(FAB) R0	108
			01	50	DO 00513 69\$: MOVL #12, RESP_VEC+172 D5 00518 70\$: TSTL INQUIRE+180 13 0051B BEQL 76\$ DO 0051D MOVL #3, RESP_VEC+180 E1 00522 BBC #3, INQ_FLAGS, 75\$ 9A 00526 MOVZBL 31(FAB), RO 91 0052A CMPB RO, #1 12 0052D BNEQ 71\$ DO 0052F MOVL #13, RESP_VEC+180 BREQ 71\$	108
		00BC	CE	A1COOAA100A60B5CDA53B607DB0C	E1 004E6 E1 004EA D0 004EF D5 004F5 D5 004F5 D6 004F8 D0 004FA D0	108
			02	0C	11 00534 BRB 75\$ 91 00536 71\$: CMPB RO, #2 1F 00539 BLSSU 72\$	108

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				03		50 07	91 1A	0053B		CMPB	RO.	#3	
			0080	CE		0E	00 11	00540		MOVL	RO 72\$ #14 75\$	RESP_VEC+180	: 108
				04		0E 22 50 07	91	0053B 0053E 00540 00545 00547	72\$:	CMPB	RO.	#4	109
			00BC	CE		13	DÖ	0054C 00551		MOVL	#19	RESP_VEC+180	109
				06		50	91	00553	73\$:	CMPB	RO.	#6	109
			00BC	CE		14	91 12 00 11	00558		MOVL	#20	RESP_VEC+180	109
				05		50	91	0055F	745:	CMPB	R0\$9750 #150 R0\$9750 R0\$9750 R750 R750 R750	#5	109
		04	00BC	CE 57		136074A0055523FDAA3360	DÖ	00558 00558 00558 0055F 00562 00569 00569 00572	758.	CMPBU BGTL BGTL BMORB BNORB BN	#21,	RESP_VEC+180	109
		0A 05	00BC	AB		03	E1	00560	75\$:	BBC	#3	-3(C(B), 76\$	: 109
			OOBC	CE	E8	AD	05	00577	76\$:	TSTL	INQU	JIRE+188	110
		21	0004	CE 57		03	D01 D05 D05 D01 D05 D01 D05 D01 D05 D01 D05 D01 D05 D01 D05 D01 D01 D01 D01 D01 D01 D01 D01 D01 D01	00577 0057A 0057C 00585 00589 00596 0059A 0059A 005A6 005A6 005B1 005B3		MOVL	#3.	RESP_VEC+180 INQ_FCAGS, 76\$ -3(CCB), 76\$ , RESP_VEC+180 UIRE+188 RESP_VEC+188	111
		21	0004	07	1E	A6	E9	00585		BLBC	30 (F	RESP_VEC+188 INQ_FLAGS, 79\$ FAB), 77\$ , RESP_VEC+188	111
		07	0004	CE		16	11	0058E	776.	BRB	79\$	70/54D) 796	
		07	00C4	A6 CE		11	D0 11	00595	113:	MOVL	#17 79\$	30(FAB), 78\$ , RESP_VEC+188	111
		05	00C4	A6		0A 02 12 16	EO	00590	78\$:	BRB BBS	#2	30(FAB), 79\$	112
			0004	A6 CE 58 50		16	00	005A6	79\$:	BBS MOVL MOVAL TSTL	#22	30(FAB), 79\$ , RESP_VÉC+188 , I UIRE[I], RO	112 112 113 113
		1		50	FF2C	60	DO DE D5 13 8F	005AF	009:	TSTL	(RO)	JIKELIJ, KU	1113
		0017		0008	FA14	CF 48	8F	005B3	016.	BEQL CASEB .WORD	RESP	TYPES[I], #0, #2 -81\$,81\$,-	113
		0017		0008		0035		UUSBA	013:	. WURD	82\$-	-81\$,-	
						20	11	00500	020.	BRB	84\$	-013	
61	0008	<b>CE48</b>		51 00	08	2D 60 AE48	DO 11 DO 90 C	00505	82\$:	MOVL	RESP	DEST VECCII, #0, VAR_LENGTHS[I], (DEST)	114 114 113 115 115
				51	00	60	DO	00501	83\$:	BRB MOVL MOVL MOVZBL	(RO)	, DSC	115
				51 50 52 50	08 F9D6 F978	CF 40	94	00504		MOVZBL	RESP	P_VEC[1], WHICH P_LENS[WHICH], R2 P_VALS[WHICH], R0 RESP_VALS[RO], #32, (DSC), @4(DSC)	: 113
61		20	F971	CF40		52	20	005E5		MOVL MOVC5	RESP	RESP_VALS[RO], #32, (DSC), a4(DSC)	115
		B6		58 0B	04	2F	F3	005EF	845:		#47.	1, 80\$	: 113
				OB		52 B1 25A 65A 020 001	F38 DDD F81 100 04	005C0 005C2 005C5 005D4 005D5 005EF 005FF 005FF 0060B 0060B		AOBLEQ BLBS PUSHL PUSHL CALLS	UNIT	STATUS STATUS FOR\$\$SIG_NO_LUB INQ_FLAGS, 86\$ SCB_POP RO	113 116 116
			00000000	G 00 57		02 02	FB	005F8		CALLS	RET_	FOR\$\$SIG_NO_LUB	
		06			000000000	02	16	00601	85\$:	BBC JSB MOVL RET	FORS	INQ_FLAGS, 86\$ S\$CB_POP	117 117 118 118
				50		01	04	0060B	865: .	MOVL	#1.	RO -	: 118

FORSINGUIRE 1-017	FORTRAN INQUIRE				N 3 16-Sep-1984 00:27:20 VAX-11 Bliss-32 V4.0-7 14-Sep-1984 12:32:02 [FORRTL.SRC]FORINGUIR.	742 Page 31 .B32;1 (6)
	000000000	50 50 7E 00	08 04 FF2C EC	AC AO CO AO O2 5E AC O3	000 0060f 87\$: .WORD Save nothing D0 00611 MOVL 8(AP), R0 MOVL 4(R0), R0 PUSHAB INQUIRE PUSHAB L UNWIND_ACTION DD 00620 PUSHL #2 DD 00622 PUSHL SP TD 00624 MOVQ 4(AP), -(SP) FB 00628 CALLS #3, FOR\$\$ERR_OPECLO RET	0347

FC 2-

```
FORSINGUIRE
                          FORTRAN INQUIRE
                                                                                                        16-Sep-1984 00:27:20
14-Sep-1984 12:32:02
                                                                                                                                              VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORINQUIR.B32:1
                                                                                                                                                                                                        Page
                          1184
1185
1186
1187
1188
1189
1190
                                       ROUTINE PUSH_CCB ( UNIT) : CALL_CCB =
! Call FOR$$CB_PUSH and return with value
                                          ABSTRACT:
                                                    Call FOR$$CB_PUSH and return with a condition value as the function result. FOR$$CB_PUSH is not called directly as it may signal when we do not desire it.
                          191
1192
1193
1194
1195
1196
1197
                                          FORMAL PARAMETERS:
                                                    UNIT
                                                                 - The unit to be pushed
                          1198
1199
1200
1201
1202
1203
1204
1205
1206
1207
1210
1211
1213
1214
1215
                                          FUNCTION RESULT:
                                                    Either SS$_NORMAL or the condition code of an error which was signalled by FOR$$CB_PUSH.
                                       BEGIN
                                              EXTERNAL REGISTER
                                                    CCB: REF $FOR$CCB DECL:
                                              ENABLE
                                                    LIB$SIG_TO_RET;
                                                                                                                    ! Convert signals to return values
                                              FOR$$CB_PUSH (.UNIT, LUB$K_ILUN_MIN);
                                                                                                                    ! Push the CCB
                                              RETURN 1:
                                                                                                                    ! Success
                                              END:
                                                                                         0004 00000 PUSH_CCB:
                                                                                                                                                                                                               1184
1204
1212
                                                                                                                        . WORD
                                                                                                                                     Save R2
                                                                                                                                    1$, (FP)
#8, RO
UNIT, R2
FOR$$CB_PUSH
#1, RO
                                                                                         DE CE DO 16 DO 04 0000
                                                               6D
50
52
                                                                                                00002
00007
0000A
                                                                           0012
                                                                                                                        MOVAL
                                                                                      08
AC
00
01
                                                                                                                        MNEGL
                                                                    000000006
                                                                                                                        MOVL
                                                                                                 0000E
00014
                                                                                                                        JSB
                                                                                                                                                                                                               1214
1216
1204
                                                                                                                        MOVL
                                                                                                 00017
                                                                                                                        RET
                                                                                                                        .WORD
                                                                                                                                    Save nothing -(SP)
                                                                                                0001A
0001C
0001E
00022
                                                                                     7E
5E
AC
03
                                                                                            0400B4
                                                                                                                        PUSHL
                                                                                                                                    4(AP), -(SP)
#3, LIB$SIG_TO_RET
                                                                              04
                                                                                                                        PVOM
                                              0000000G
                                                                                                                        CALLS
                                                                                                 00029
```

Routine Base: \_FOR\$CODE + 0760

; Routine Size: 42 bytes,

FOR

VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FORINGUIR.B32:1 Page 33 (8)

FO!

FORTRAN INQUIRE

16-Sep-1984 00:27:20
14-Sep-1984 12:32:02

1217 1
1218 1 END
!End of module

PSECT SUMMARY

Name

Bytes

Attributes

\_FOR\$CODE

FORSINQUIRE

; 1159 ; 1160 ; 1161

1930 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	96	29	581	00:01.0
\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	212		52	00:00.6
\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1	36	0		8	00:00.1

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$: FOR INQUIR/OBJ=OBJ\$: FOR INQUIR MSRC\$: FOR INQUIR/UPDATE=(ENH\$: FOR INQUIR

Size: 1626 code + 304 data bytes Run Time: 00:38.2 Elapsed Time: 01:44.9

Elapsed Time: 00:38.2 Lines/CPU Min: 1914 Lexemes/CPU-Min: 22410 Memory Used: 500 pages Compilation Complete 0181 AH-BT13A-SE

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